



## **Rivanna River TMDL Local Steering Committee Meeting**

**November 8, 2006**

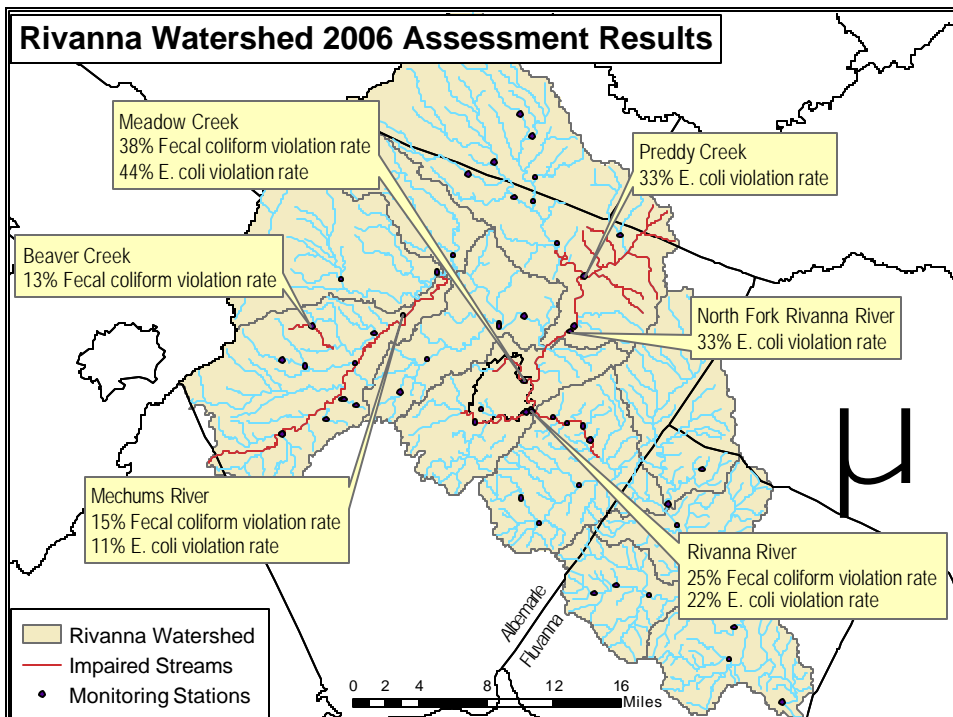


### **Rivanna River TMDL Project**

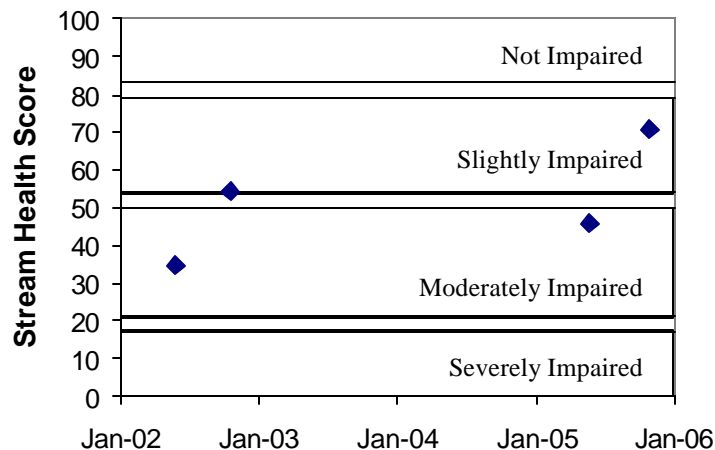
- Project includes the following streams:
  - Rivanna River
  - Mechums River
  - Meadow Creek
  - North Fork Rivanna River
  - Beaver Creek
  - Preddy Creek
- All these streams have bacterial impairments
  - Violate fecal coliform or E. coli standards more than 10% of the time
  - Fecal coliform standard = 400 cfu/100ml
  - E. coli standard = 235 cfu/100ml
  - State and Federal law require development of TMDLs for impaired waters

## Rivanna River TMDL Project

- In addition, the project will address an aquatic life (benthic) impairment on Rivanna River
  - Aquatic life impairment is determined from biological surveys of benthic macroinvertebrates
  - Bugs are identified, counted, and compared to a reference using EPA's RBPII method

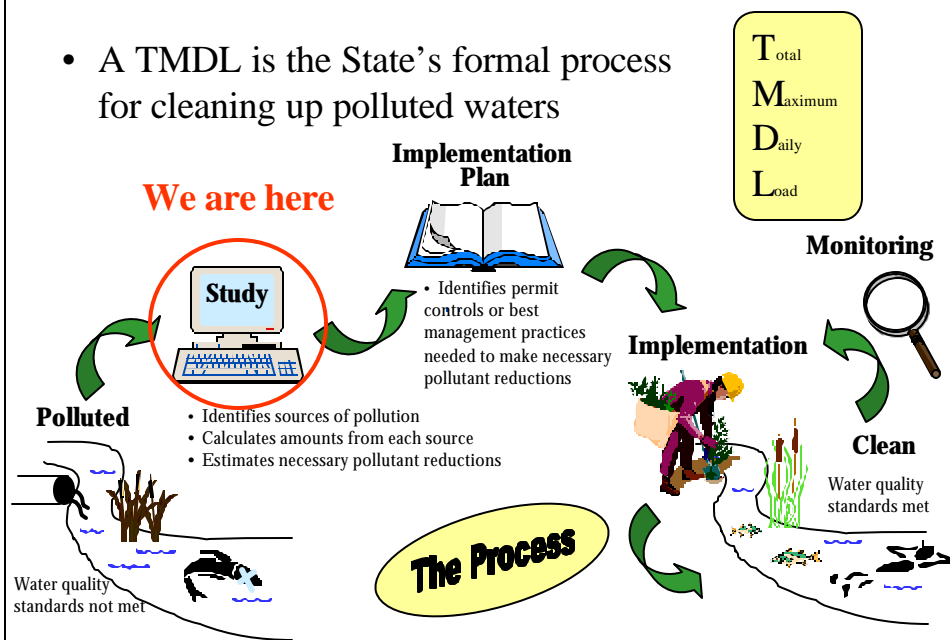


## Rivanna River Benthic Scores



## What is a TMDL?

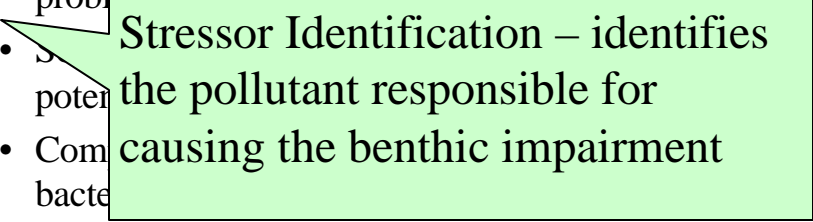
- A TMDL is the State's formal process for cleaning up polluted waters



## Bacteria TMDL Development

- ✓ Monitoring/Listing - identifies a water quality problem
- Source Assessment - identifies and quantifies potential contributors of bacteria in watershed
- Computer Modeling - examines the movement of bacteria from the source to the water
- Allocation/TMDL - uses the model to determine the load reductions necessary to achieve water quality goals

## Benthic TMDL Development

- ✓ Monitoring/Listing - identifies a water quality problem
-  Stressor Identification – identifies the pollutant responsible for causing the benthic impairment
- Allocation/TMDL - uses the model to determine the load reductions necessary to achieve water quality goals

## What is the Local Steering Committee?

- Group of local citizens, landowners, organizations, and government entities that will provide input, review and assistance to DEQ during the study
- Goal - make sure technical aspects of the study are accurate as well as acceptable to the community
  - One of today's goals is to review watershed characterization data

